

Title (en)
TELECOMMUNICATIONS NETWORK WITH PLESIOCHRONOUS TRANSFER MODE

Publication
EP 0452223 A3 19940608 (EN)

Application
EP 91400980 A 19910412

Priority
US 50956390 A 19900413

Abstract (en)
[origin: EP0452223A2] A telecommunications network of the type having links with long propagation delay uses an asynchronous transfer mode in which small, fixed-length blocks of information (cells) are transferred at very high speed. Each long-haul hop within the network is phase-locked to a fixed period, and time slots of a granularity of one cell are pre-allocated to the virtual circuits. The network operates in a near-synchronous (plesiochronous) manner. By pre-allocating cells, it is assured that the cells will not arrive at a faster rate than that at which each receiving node can forward them on to the next hop. When bursts of heavy traffic occur, the network responds by slowing or limiting access, rather than by loss of data at intermediate nodes due to buffer overflow.

IPC 1-7
H04L 12/56

IPC 8 full level
H04L 12/56 (2006.01); **H04Q 11/04** (2006.01)

CPC (source: EP US)
H04L 47/10 (2013.01 - EP US); **H04J 2203/0091** (2013.01 - EP US); **H04L 2012/5674** (2013.01 - EP US); **H04L 2012/5675** (2013.01 - EP US)

Citation (search report)
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• [A] EP 0269202 A2 19880601 - MARCONI CO LTD [GB]
• [X] TANENBAUM: "COMPUTER NETWORKS SECOND EDITION", 1989, PRENTICE-HALL, INC., ENGLEWOOD CLIFFS, NJ
• [A] MAXEMCHUK ET AL.: "ROUTING AND FLOW CONTROL IN HIGH-SPEED WIDE-AREA NETWORKS", PROCEEDINGS OF THE IEEE, vol. 78, no. 1, January 1990 (1990-01-01), NEW YORK US, pages 204 - 220, XP000125850

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